



FAG

22320-E1A-XL-M-T41A

Spherical Roller Bearing

Spherical roller bearing 223..-E1A-XL-M,
symmetric 2 outer ribs

X-life

Technical information



Your current product variant

| | | |
|---------------------------|--------------|-----------------------------------|
| Design | E1A | Without central rip |
| Bore type | Z | Cylindrical |
| Cage | M | Brass Cage |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 100 mm | Bore diameter |
| D | 215 mm | Outside diameter |
| B | 73 mm | Width |
| C_r | 810.000 N | Basic dynamic load rating, radial |
| C_{0r} | 920.000 N | Basic static load rating, radial |
| C_{ur} | 77.000 N | Fatigue load limit, radial |
| n_G | 3.300 1/min | Limiting speed |
| n_{gr} | 2.380 1/min | Reference speed |
| $\approx m$ | 13,018 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 114 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 201 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,5 mm | Maximum recess radius |



Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 3 mm | Minimum chamfer dimension |
| D_1 | 184,7 mm | Bore diameter outer ring |
| d_2 | 130,2 mm | Raceway diameter of the inner ring |
| d_s | 6,3 mm | Diameter lubrication hole |
| n_s | 12,2 mm | Width of lubricating groove |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--|
| e | 0,33 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,03 | Dynamic axial load factor |
| Y_2 | 3,02 | Dynamic axial load factor |
| Y_0 | 1,98 | Static axial load factor |